

Appln No. 10/540,796

S. Guinehut

Office Action made Final dated December 28, 2006

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APR 26 2007

This listing of claims will replace all prior versions and listing of claims in the application.

LISTING OF CLAIMS

1-5 (cancelled)

6. (currently amended) 6. An energy-absorbing case (4) for a motor vehicle bumper beam (2) comprising a casing consisting of a hollow section piece which, when used with a bumper beam, has a first end attached to the bumper beam (2) and a second end fixed to the end of a longitudinal member (6) of the motor vehicle, wherein the casing is filled with a metal foam with energy-absorption properties having a density of between 0.1 and 0.4 g/cm³. The energy-absorbing case as claimed in claim 2, wherein the hollow section piece has a square cross section with a side length (a) of between 50 mm and 80 mm, and wherein the hollow section piece has a rectangular or square cross section.

7. (currently amended) An energy-absorbing case (4) for a motor vehicle bumper beam (2) comprising a casing consisting of a hollow section piece which, when used with a bumper beam, has a first end attached to the bumper beam (2) and a second end fixed to the end of a longitudinal member (6) of the motor vehicle, wherein the casing is filled with a metal foam with energy-absorption properties having a density of between 0.1 and 0.4 g/cm³, and wherein the length (L) of the hollow section piece is between 80 mm and 200 mm, The energy-absorbing case as claimed in claim 2, wherein the length (L) of the hollow section piece is between 80 mm and 200 mm, and wherein the hollow section piece has a rectangular or square cross section.

8. (currently amended) An energy-absorbing case (4) for a motor vehicle bumper beam (2) comprising a casing consisting of a hollow section piece which, when used with a bumper beam, has a first end attached to the bumper beam (2) and a second end fixed to the end of a longitudinal member (6) of the motor vehicle, wherein the casing is filled with a metal foam with energy-absorption properties having a density of between 0.1 and 0.4 g/cm³, and wherein the thickness (e) of the hollow section piece is between 1.5 mm and 3 mm, The energy-absorbing case as claimed in claim 2, wherein the thickness (e) of the

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hollow section piece is between 1.5 mm and 3 mm, and wherein the hollow section piece has a rectangular or square cross section.

9. (cancelled)
10. (currently amended) An energy-absorbing case (4) for a motor vehicle bumper beam (2) comprising a casing consisting of a hollow section piece which, when used with a bumper beam, has a first end attached to the bumper beam (2) and a second end fixed to the end of a longitudinal member (6) of the motor vehicle, wherein the casing is filled with a metal foam with energy-absorption properties having a density of between 0.1 and 0.4 g/cm³, wherein the density of the foam is between 0.1 and 0.3 g/cm³. The energy-absorbing case as claimed in claim 9, wherein the thickness (e) of the hollow section piece is between 1.5 mm and 3 mm and wherein the thickness (e) of the hollow section piece is between 1.5 mm and 3 mm.
11. (previously presented) The energy-absorbing case as claimed in claim 10, wherein the hollow section piece has a rectangular or square cross section.
12. (previously presented) The energy-absorbing case as claimed in claim 11, wherein the hollow piece section has a square cross section, the thickness of the case is between 2.2 and 3mm, and the length (L) of the hollow piece section is less than or equal to 80mm.
13. (previously presented) The energy-absorbing case as claimed in claim 11, wherein the length of the hollow piece section is between 80 and 140 mm, and the density of the foam is between 0.1 and 0.3 g/cm³.
14. (previously presented) The energy-absorbing case as claimed in claim 11, wherein the length of the hollow piece section is between 140 and 200 mm, and wherein it has an energy absorption mass ratio between 10 and 20.
15. (previously presented) The energy-absorbing case as claimed in claim 8, wherein the hollow piece section has a square cross section, the

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thickness of the case is between 2.2 and 3mm, and the length (L) of the hollow piece section is less than or equal to 80mm.

16. (previously presented) The energy-absorbing case as claimed in claim 15, wherein the density of the foam is between 0.2 and 0.4 g/cm³.
17. (previously presented) The energy-absorbing case as claimed in claim 8, wherein the length of the hollow piece section is between 80 and 140 mm, and the density of the foam is between 0.1 and 0.3 g/cm³.
18. (previously presented) The energy-absorbing case as claimed in claim 8, wherein the length of the hollow piece section is between 140 and 200 mm, and wherein it has an energy absorption mass ratio between 10 and 20.